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	Application No.	Applicant(s)
Notice of Allowability	10/798,846	YAMAMOTO ET AL.
	Examiner	Art Unit
	Jean B. Jeanglaude	2819
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed on 0</u>	<u>02-02-05</u> .	
2. X The allowed claim(s) is/are <u>1-30</u> .		
3. $igotimes$ The drawings filed on <u>11 March 2004</u> are accepted by the I	Examiner.	
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" on oted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the cash sheet. Replacement sheet(s) should be Required Examiner's comment regarding REQUIREMENT For the cash sheet. Replacement sheet(s) should be Required Examiner's comment regarding REQUIREMENT For the cash sheet. Replacement sheet(s) should be Required Examiner's comment regarding REQUIREMENT For the cash sheet. Replacement sheet(s) should be Required Examiner's comment regarding REQUIREMENT For the cash sheet. Replacement sheet(s) should be Required Examiner's comment regarding REQUIREMENT For the cash sheet. Replacement sheet(s) should be Required Examiner's comment regarding REQUIREMENT For the cash sheet. Replacement sheet(s) should be Required Examiner's comment regarding REQUIREMENT For the cash sheet.	been received.  been received in Application No cuments have been received in this  of this communication to file a reply ENT of this application.  Itted. Note the attached EXAMINER es reason(s) why the oath or declarate to be submitted.  on's Patent Drawing Review ( PTO  Amendment / Comment or in the ( Amendment	r national stage application from the complying with the requirements  R'S AMENDMENT or NOTICE OF ation is deficient.  -948) attached  Office action of lings in the front (not the back) of (d).  must be submitted. Note the
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 8), 7. ☐ Examiner's Amend	ite

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## Reasons For Allowance

Claims 1 – 30 are allowable.

1. The following is an examiner's statement of reasons for allowance: in combination with other limitations of the claims the prior arts made of record fail to suggest an information encoding apparatus and method for encoding N pieces of information comprising a scrambled information generation section for applying, to each of N pieces of information, one corresponding scrambling pattern among the M scrambling patters so as to generate N pieces of scrambled information. Also, in combination with other limitations of the claims the prior arts made of record fail to suggest an information re-encoding apparatus and method for e-encoding a plurality of pieces of first encoded information into a plurality of second encoded information wherein the information re-encoding apparatus and method comprise a third scrambling pattern generation section for performing an arithmetic operation on the plurality of first scrambling patterns with respect to the plurality of second scrambling patterns by a second arithmetic operation, so as to generate a plurality of third scrambling patterns; a scrambled information generation section for performing an arithmetic operation on the plurality of third scrambling patterns with respect to the plurality of pieces of first scrambled information by the first arithmetic-operation, so as to generate the plurality of pieces of second scrambled information; and an encoded information generation section for supplying the plurality of pieces of second scrambled information with the plurality of second parities, so as to generate the plurality of pieces of second encoded information; wherein the arithmetic operations performed by the first arithmetic

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operation and the second arithmetic operation fulfill (AoB) \* B=A, where o represents a first operator representing the arithmetic operation to be performed by the first arithmetic operation: the \* represents a second operator representing the arithmetic operation to be performed by the second arithmetic operation, and A and B each represent an arbitrary value.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 3. Sako et al. (US patent Number 5,901,127) discloses a data recording method and apparatus, data record medium and data reproducing method and apparatus.
- 4. Coakeley et al. (US Application Number 10/117,208) discloses systems and methods for high speed serial encoding and decoding for data and control interfaces.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean B. Jeanglaude whose telephone number is 571-272-1804. The examiner can normally be reached on Monday - Friday 7:30 A. M. - 5:00 P.M..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Tokar can be reached on 571-272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jan Srunn glanslande Jean Bruner Jeanglaude

Primary Examiner February 22, 2005